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WHAT IS CLAIMED IS:

- 1. A magnetooptical recording medium comprising:
- a first magnetic layer which is an in-plane magnetization film at room temperature and raised temperatures, and is changed into a perpendicular magnetization film at medium temperatures; and

a second magnetic layer which is composed of a perpendicular magnetization film.

- 10 2. A magnetooptical recording medium according to Claim
 1, wherein each of the first and second magnetic layer
 consists of a rear-earth and iron group amorphous alloy.
- A magnetooptical recording medium according to Claim
 2, wherein the first magnetic layer has a composition in which rare-earth element sublattice magnetization is predominant.
- 4. A magnetooptical recording medium according to Claim

 1, further comprising a third magnetic layer interposed
 between the first and second magnetic layers, and having
 Curie temperature lower than those of the first and second
 magnetic layers.

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5. A magnetooptical recording medium according to Claim

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4, wherein the third magnetic layer is composed of a perpendicular magnetization film.

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- 6. A magnetooptical recording medium according to Claim
 4, wherein the third magnetic layer is an in-plane
 magnetization film and changes to a perpendicular
 magnetization film at raised temperatures.
- 7. A method of reproducing, with a laser beam, information recorded on a magnetooptical recording medium comprising a first magnetic layer which is an in-plane magnetization film at room temperature and high temperatures, and changed into a perpendicular magnetization film at intermediate temperatures, and a second magnetic layer which is composed of a perpendicular magnetization film, said method comprising the steps of:

projecting a laser beam onto the medium from the side of the first magnetic layer;

changing high-temperature and low-temperature regions within a portion of the first magnetic layer which is irradiated with the laser beam, into an in-plane magnetization film, and a medium-temperature region into a perpendicular magnetization film;

transferring information recorded in the second magnetic layer to the first magnetic layer by exchange

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coupling perpendicular magnetization of the first magnetic layer and magnetization of the second magnetic layer; and reproducing the recorded information based on the magneto-optic effect of the light reflected from the medium.